

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28	Oct 21	EVENTLINE has been reloaded
NEWS 29	Oct 24	BEILSTEIN adds new search fields
NEWS 30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 32	Nov 18	DKILIT has been renamed APOLLIT

NEWS EXPRESS	October 14 CURRENT WINDOWS VERSION IS V6.01, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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NEWS WWW	CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

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SINCE FILE
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SESSION

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FILE 'BIOTECHNO' ENTERED AT 14:36:14 ON 22 NOV 2002

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FILE 'WPIDS' ENTERED AT 14:36:14 ON 22 NOV 2002

COPYRIGHT (C) 2002 THOMSON DERWENT

=> s ubiquitin (3a) ligase (3a)e3

'E3' NOT FOUND

The E# entered is not currently defined.

=> s ubiquitin (3a) ligase (3a) e3

'E3' NOT FOUND

The E# entered is not currently defined.

=> s ubiquitin (3a) e3(3a)ligase

'E3' NOT FOUND

The E# entered is not currently defined.

=> s ubiquitin (3a) ligase

L1 7880 UBIQUITIN (3A) LIGASE

=> s l1 (5a)(dna or recombina? or gene? or nucleotide)

2 FILES SEARCHED...

5 FILES SEARCHED...

7 FILES SEARCHED...

10 FILES SEARCHED...

L2 605 L1 (5A) (DNA OR RECOMBINA? OR GENE? OR NUCLEOTIDE)

=> s l2 (5a) human

7 FILES SEARCHED...

L3 65 L2 (5A) HUMAN

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 40 DUP REM L3 (25 DUPLICATES REMOVED)

=> d 1-10

L4 ANSWER 1 OF 40 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1

Full Text	Citing References
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AN 2002:698625 HCAPLUS

Correction of: 2002:595006

DN 137:196697

Correction of: 137:151107

TI Human gene BNO1 mapped to chromosome 16q24.3, encoding protein for ubiquitin-ligase complex, its expression, therapeutical and diagnostic uses thereof

IN Callen, David Frederick; Powell, Jason Anthony; Kremmidiotis, Gabriel; Gardner, Alison Elaine; Crawford, Joanna; Bais, Anthony John; Kochetkova, Marina

PA Bionomics Limited, Australia

SO PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002061081	A1	20020808	WO 2002-AU96	20020131
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI AU 2001-2783 A 20010131

L4 ANSWER 2 OF 40 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

Full Text

AN 2002-13537 BIOTECHDS

TI Novel human E3 ubiquitin protein ligase-like enzymes, regulators of which are useful for preventing and treating cancer, Parkinson's disease, Angleman syndrome and Alzheimer's disease; vector-mediated recombinant protein gene transfer and expression in host cell, antisense oligonucleotide, ribozyme and antibody for use in drug screening and cancer, Parkinson disease, Angleman syndrome and Alzheimer disease prevention, therapy and gene therapy

AU ZHU Z

PA BAYER AG

PI WO 2002024878 28 Mar 2002

AI WO 2000-EP11008 25 Sep 2000

PRAI US 2000-234985 25 Sep 2000

DT Patent

LA English

OS WPI: 2002-383186 [41]

L4 ANSWER 3 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2002:594974 HCAPLUS

DN 137:167677

TI Novel proteins involved in protein ubiquitination and skeletal muscle atrophy and cDNAs encoding them and their therapeutic uses

IN Glass, David J.; Bodine, Sue C.

PA Regeneron Pharmaceuticals, Inc., USA
 SO PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002061046	A2	20020808	WO 2002-US2811	20020130
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2001-264926P	P	20010130		
	US 2001-311697P	P	20010810		
	US 2001-338742P	P	20011022		

L4 ANSWER 4 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2002:240939 HCAPLUS
 DN 136:275365
 TI Sequences of a human E3 ubiquitin protein ligase sequence homolog and uses in diagnosis, therapy and drug screening
 IN Zhu, Zhimin
 PA Bayer Aktiengesellschaft, Germany
 SO PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002024878	A2	20020328	WO 2001-EP11008	20010924
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2002021624	A5	20020402	AU 2002-21624	20010924
PRAI	US 2000-234985P	P	20000925		
	WO 2001-EP11008	W	20010924		

L4 ANSWER 5 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2002:556892 HCAPLUS
 DN 137:323052
 TI EDD, the human hyperplastic discs protein, has a role in progesterone receptor coactivation and potential involvement in DNA damage response
 AU Henderson, Michelle J.; Russell, Amanda J.; Hird, Samantha; Munoz, Marcia; Clancy, Jennifer L.; Lehrbach, Gillian M.; Calanni, Sophina T.; Jans, David A.; Sutherland, Robert L.; Watts, Colin K. W.
 CS Cancer Research Program, Garvan Institute of Medical Research, St Vincent's Hospital, Darlinghurst, 2010, Australia
 SO Journal of Biological Chemistry (2002), 277(29), 26468-26478

CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English

RE.CNT 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2002:102768 HCAPLUS
DN 137:42476
TI Cooperation of HECT-domain ubiquitin ligase hHYD and DNA topoisomerase II-binding protein for DNA damage response
AU Honda, Yoshiomi; Tojo, Masahide; Matsuzaki, Kazuhito; Anan, Tadashi; Matsumoto, Mitsuhiro; Ando, Masayuki; Saya, Hideyuki; Nakao, Mitsuyoshi
CS Department of Tumor Genetics and Biology and Department of Internal Medicine I, Kumamoto University School of Medicine, Kumamoto, 860-0811, Japan
SO Journal of Biological Chemistry (2002), 277(5), 3599-3605
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full Text	Citing References
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AN 2002:539501 BIOSIS
DN PREV200200539501
TI VCY2 protein interacts with the HECT domain of ubiquitin-protein ligase E3A.
AU Wong, Elaine Y. M.; Tse, Jenny Y. M. (1); Yao, Kwok-Ming; Tam, Po-Chor; Yeung, William S. B.
CS (1) Department of Obstetrics and Gynaecology, The University of Hong Kong, 21 Sassoon Road, Pokfulam Road, 7/F Laboratory Block, Faculty of Medicine Building, Hong Kong: jymtse@hkucc.hku.hk China
SO Biochemical and Biophysical Research Communications, (September 6, 2002) Vol. 296, No. 5, pp. 1104-1111. <http://www.academicpress.com/bbrc>. print. ISSN: 0006-291X.
DT Article
LA English

L4 ANSWER 8 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2002:403299 HCAPLUS
DN 137:227331
TI PJA1, Encoding a RING-H2 Finger Ubiquitin Ligase, Is a Novel Human X Chromosome Gene Abundantly Expressed in Brain
AU Yu, Ping; Chen, Yiwang; Tagle, Danilo A.; Cai, Tao
CS Structure Biophysics Laboratory, NCI-Frederick, Frederick, MD, 21702, USA
SO Genomics (2002), 79(6), 869-874
CODEN: GNMCEP; ISSN: 0888-7543
PB Elsevier Science
DT Journal
LA English

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE

Full Text	Citing References
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AN 2002:260962 BIOSIS
 DN PREV200200260962
 TI The ret finger protein-like 4 gene, Rfpl4, encodes a putative E3 ubiquitin-protein ligase expressed in adult germ cells.
 AU Rajkovic, Aleksandar; Lee, Jung Hyun; Yan, Changning; Matzuk, Martin M. (1)
 CS (1) Department of Pathology, Baylor College of Medicine, One Baylor Plaza, Houston, TX, 77030: mmatzuk@bcm.tmc.edu USA
 SO Mechanisms of Development, (March, 2002) Vol. 112, No. 1-2, pp. 173-177. print.
 ISSN: 0925-4773.
 DT Article
 LA English

L4 ANSWER 10 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2002:178750 HCAPLUS
 DN 137:276529
 TI Search for Parkin substrates of ubiquitin ligase
 AU Suzuki, Toshiaki; Tanaka, Keiji
 CS Department of Molecular Oncology, Tokyo Metropolitan Institute of Medical Science, Japan
 SO Annual Review Shinkei (2002) 1-6
 CODEN: ARSNCE
 PB Chugai Igakusha
 DT Journal; General Review
 LA Japanese

=> d 11-20

L4 ANSWER 11 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2001:915285 HCAPLUS
 DN 136:380974
 TI The IC-SNURF-SNRPN transcript serves as a host for multiple small nucleolar RNA species and as an antisense RNA for UBE3A
 AU Runte, Maren; Huttenhofer, Alexander; Gross, Stephanie; Kiefmann, Martin; Horsthemke, Bernhard; Buiting, Karin
 CS Institut fur Humangenetik, Universitätsklinikum Essen, Essen, 45122, Germany
 SO Human Molecular Genetics (2001), 10(23), 2687-2700
 CODEN: HMGE5; ISSN: 0964-6906
 PB Oxford University Press
 DT Journal
 LA English

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full Text	Citing References
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AN 2002:116432 BIOSIS
 DN PREV200200116432
 TI Distinct phenotypes distinguish the molecular classes of Angelman syndrome.
 AU Lossie, A. C.; Whitney, M. M.; Amidon, D.; Dong, H. J.; Chen, P.; Theriaque, D.; Hutson, A.; Nicholls, R. D.; Zori, R. T.; Williams, C. A.; Driscoll, D. J. (1)
 CS (1) Pediatric Genetics, University of Florida College of Medicine, Gainesville, FL, 32610-0296: driscdj@pediatrics.ufl.edu USA
 SO Journal of Medical Genetics, (December, 2001) Vol. 38, No. 12, pp. 834-845. <http://www.jmedgenet.com>. print.
 ISSN: 0022-2593.

DT Article
LA English

L4 ANSWER 13 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full Text	Citing References
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AN 2002:70251 BIOSIS
DN PREV200200070251
TI A search for targets mediating Angelman syndrome pathogenesis using *Drosophila melanogaster*.
AU Bowers, M. (1); Reiter, L. T. (1); Jiang, Y.-H.; Beaudet, A. L.; Bier, E. (1)
CS (1) Biology, UCSD, La Jolla, CA USA
SO American Journal of Human Genetics, (October, 2001) Vol. 69, No. 4 Supplement, pp. 634. <http://www.journals.uchicago.edu/AJHG/home.html>. print.
Meeting Info.: 51st Annual Meeting of the American Society of Human Genetics San Diego, California, USA October 12-16, 2001
ISSN: 0002-9297.
DT Conference
LA English

L4 ANSWER 14 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full Text	Citing References
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AN 2001:497436 BIOSIS
DN PREV200100497436
TI Parkin interacts with MAP1A and promotes its ubiquitination.
AU Feng, J. (1); Lin, Y. (1)
CS (1) Dept. of Physiology and Biophysics, SUNY Buffalo, Buffalo, NY USA
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 516. print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001
ISSN: 0190-5295.
DT Conference
LA English
SL English

L4 ANSWER 15 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2001:577237 HCAPLUS
DN 136:195997
TI SAG/ROC2/Rbx2/Hrt2, a component of SCF E3 ubiquitin ligase: genomic structure, a splicing variant, and two family pseudogenes
AU Swaroop, Manju; Gosink, Mark; Sun, Yi
CS Cancer Molecular Sciences, Pfizer Global Research and Development, Ann Arbor Laboratories, Ann Arbor, MI, USA
SO DNA and Cell Biology (2001), 20(7), 425-434
CODEN: DCEBE8; ISSN: 1044-5498
PB Mary Ann Liebert, Inc.
DT Journal
LA English

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full Text	Citing References
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AN 2001:423354 BIOSIS
DN PREV200100423354
TI Kinetic form discrimination in Prader-Willi syndrome.
AU Fox, R. (1); Yang, G. S.; Feurer, I. D.; Butler, M. G.; Thompson, T.
CS (1) Vanderbilt University, 301 Wilson Hall, Nashville, TN, 37240: b.fox@vanderbilt.edu USA
SO Journal of Intellectual Disability Research, (August, 2001) Vol. 45, No.

4, pp. 317-325. print.
ISSN: 0964-2633.

DT Article
LA English
SL English

L4 ANSWER 17 OF 40 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

Full
Text

AN 2000-11610 BIOTECHDS
TI Polypeptide enhancing phosphorylated 1kappaB ubiquitination useful for treating disorder associated with NF-kappaB activation e.g. cancer, comprising amino acid sequence of human E3 ubiquitin-ligase or its variant;
involving vector-mediated **human E3-ubiquitin-ligase gene** transfer for expression in host cell
AU Manning A M; Mercurio F; Amit S; Ben-Neriah Y; Davis M; Hatzubai A; Lavon I; Yaron A
PA Signal-Pharm.; Univ.Jerusalem-Hebrew-Yissum-Res.Develop.
LO Jerusalem, Israel.
PI WO 2000034447 15 Jun 2000
AI WO 1999-US29371 10 Dec 1999
PRAI US 1998-210060 10 Dec 1998
DT Patent
LA English
OS WPI: 2000-431294 [37]

L4 ANSWER 18 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full
Text

Citing
References

AN 2000:401972 HCAPLUS
DN 133:55316
TI Human E3 ubiquitin ligase and β TrCP and methods for modulating ubiquitination of phospho-IkB and activation of NF-kb and disease treatment
IN Manning, Anthony M.; Mercurio, Frank; Amit, Sharon; Ben-Neriah, Yinon; Davis, Matti; Hatzubai, Ada; Lavon, Iris; Yaron, Avraham
PA Signal Pharmaceuticals, Inc., USA; Yissum Research Development Company of the Hebrew University of Jerusalem
SO PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000034447	A2	20000615	WO 1999-US29371	19991210
	WO 2000034447	A3	20001109		
	WO 2000034447	C2	20020829		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1135504	A2	20010926	EP 1999-966122	19991209
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1998-210060	A	19981210		
	WO 1999-US29371	W	19991210		

L4 ANSWER 19 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2000:384437 HCAPLUS
 DN 133:39673
 TI Polynucleotides (cDNA) and polypeptides of human ubiquitin conjugating enzyme (E2)-associated protein Ring C1, sequences, and biol. and therapeutic uses thereof
 IN Markham, Alexander Fred; Robinson, Philip Alan
 PA The University of Leeds, UK
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000032787	A1	20000608	WO 1999-GB3987	19991130
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1135505	A1	20010926	EP 1999-973071	19991130
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	GB 1998-26276	A	19981201		
	WO 1999-GB3987	W	19991130		

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2000:260508 HCAPLUS
 DN 132:290750
 TI Ubiquitin protein ligase-target-binding protein fusion and method for targeted proteolysis
 IN Zhou, Pengbo; Howley, Peter
 PA President and Fellows of Harvard College, USA
 SO PCT Int. Appl., 185 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000022110	A2	20000420	WO 1999-US23705	19991008
	WO 2000022110	A3	20001116		
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 1998-103787P	P	19981009		

=> d 21-30

L4 ANSWER 21 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
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AN 2000:161423 HCAPLUS
DN 132:204851
TI Human ubiquitin ligases substrate-targeting subunits and their cDNA sequences and uses as therapeutic targets
IN Chiaur, Dah Shiarn; Pagano, Michele; Latres, Esther
PA New York University, USA
SO PCT Int. Appl., 245 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000012679	A1	20000309	WO 1999-US19560	19990827
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9955869	A1	20000321	AU 1999-55869	19990827
	EP 1108008	A1	20010620	EP 1999-942510	19990827
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1998-98355P	P	19980828		
	US 1999-118568P	P	19990203		
	US 1999-124449P	P	19990315		
	US 1998-118568P	P	19990203		
	US 1998-124449P	P	19990315		
	WO 1999-US19560	W	19990827		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 22 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
--------------	----------------------

AN 2000:467833 HCAPLUS
DN 133:86095
TI Human E3 ubiquitin protein ligase and dominant negative variants and cDNAs and methods for modulator screening and therapy
IN Hustad, Carolyn Marziasz; Ghildyal, Namit
PA Zeneca Limited, UK
SO U.S., 34 pp., Cont.-in-part of U.S. 5,976,849.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6087122	A	20000711	US 1999-357746	19990721
	US 5976849	A	19991102	US 1998-70060	19980430
PRAI	US 1998-73839P	P	19980205		
	US 1998-70060	A2	19980430		

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 40 MEDLINE

DUPLICATE 3

Full Text	Citing References
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AN 2001015923 MEDLINE

DN 20459263 PubMed ID: 11003657
 TI Nonperiodic activity of the **human** anaphase-promoting complex-Cdh1
ubiquitin ligase results in continuous **DNA** synthesis uncoupled from
 mitosis.
 AU Sorensen C S; Lukas C; Kramer E R; Peters J M; Bartek J; Lukas J
 CS Danish Cancer Society, Institute of Cancer Biology, DK-2100 Copenhagen O,
 Denmark.
 SO MOLECULAR AND CELLULAR BIOLOGY, (2000 Oct) 20 (20) 7613-23.
 Journal code: 8109087. ISSN: 0270-7306.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200010
 ED Entered STN: 20010322
 Last Updated on STN: 20020420
 Entered Medline: 20001030

L4 ANSWER 24 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R)

	Full Text	Citing References
AN	2000:923943	SCISEARCH
GA	The Genuine Article (R) Number: 355TA	
TI	The human UBE3B gene encodes a novel E3 ubiquitin ligase with a partial HECT domain.	
AU	Lomax M I (Reprint); Huang L	
CS	UNIV MICHIGAN, DEPT OTOLARYNGOL, ANN ARBOR, MI 48109	
CYA	USA	
SO	AMERICAN JOURNAL OF HUMAN GENETICS, (OCT 2000) Vol. 67, No. 4, Supp. [2], pp. 999-999. Publisher: UNIV CHICAGO PRESS, 5720 SOUTH WOODLAWN AVE, CHICAGO, IL 60637-1603. ISSN: 0002-9297.	
DT	Conference; Journal	
FS	LIFE; CLIN	
LA	English	
REC	Reference Count: 0	

L4 ANSWER 25 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

	Full Text	Citing References
AN	2000:503898	BIOSIS
DN	PREV200000503898	
TI	The human UBE3B gene encodes a novel E3 ubiquitin ligase with a partial HECT domain.	
AU	Lomax, M. I. (1); Huang, L. (1)	
CS	(1) Dept. of Otolaryngology, University of Michigan, Ann Arbor, MI USA	
SO	American Journal of Human Genetics, (October, 2000) Vol. 67, No. 4 Supplement 2, pp. 188. print. Meeting Info.: 50th Annual Meeting of the American Society of Human Genetics Philadelphia, Pennsylvania, USA October 03-07, 2000 American Society of Human Genetics . ISSN: 0002-9297.	
DT	Conference	
LA	English	
SL	English	

L4 ANSWER 26 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

	Full Text	Citing References
AN	1999:481173	BIOSIS
DN	PREV199900481173	
TI	Angelman syndrome: AS phenotype correlated with specific EEG pattern may result in a high detection rate of mutations in the UBE3A gene.	
AU	Laan, L. A. E. M. (1); van den Ouweland, A. M. W.; Bakker, P. L. G.; Halley, D. J. J.; Catsman-Berrevoets, C. E.	

CS (1) Department of Neurology, Leiden University Medical Centre, 2300 RC,
Leiden Netherlands
SO Journal of Medical Genetics, (Sept., 1999) Vol. 36, No. 9, pp. 723-724.
ISSN: 0022-2593.
DT Letter
LA English

L4 ANSWER 27 OF 40 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

Full
Text

AN 1999-13803 BIOTECHDS
TI New human proteolytic accessory enzyme and its modulators useful for
treating disease conditions like inflammation or autoimmune diseases;
human recombinant E3 ubiquitin protein ligase production via
vector plasmid-mediated **gene** transfer and expression in Escherichia
coli for diagnosis, therapy and gene therapy
AU Hustad C M; Ghildyal N
PA Zeneca
LO London, UK.
PI WO 9940201 12 Aug 1999
AI WO 1999-GB353 2 Feb 1999
PRAI US 1998-70060 30 Apr 1998; US 1998-73839 5 Feb 1998
DT Patent
LA English
OS WPI: 1999-508506 [42]

L4 ANSWER 28 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full
Text

Citing
References

AN 1999:53382 HCAPLUS
DN 130:120480
TI Nucleic acid encoding mammalian gene Ubr1 ubiquitin-protein ligase and
vectors and cells containing Ubr1 nucleic acid
IN Varshavsky, Alexander; Kwon, Yong Tae
PA California Institute of Technology, USA
SO U.S., 18 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5861312	A	19990119	US 1997-982956	19971202
	CA 2313243	AA	19990610	CA 1998-2313243	19981202
	WO 9928440	A1	19990610	WO 1998-US25548	19981202
	W: CA, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1040183	A1	20001004	EP 1998-959658	19981202
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002512771	T2	20020508	JP 2000-523318	19981202
	US 6159732	A	20001212	US 1999-228317	19990111
PRAI	US 1997-982956	A	19971202		
	WO 1998-US25548	W	19981202		

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 29 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full
Text

Citing
References

AN 1999:124754 BIOSIS
DN PREV199900124754
TI Mutation screening of the UBE3A/E6-AP gene in autistic disorder.
AU Veenstra-Vanderweele, J.; Gonen, D.; Leventhal, B. L.; Cook, E. H., Jr.
(1)

CS (1) Univ. Chicago, Dep. Psychiatry, 5841 South Maryland Avenue MC3077,
Chicago, IL 60637 USA
SO Molecular Psychiatry, (Jan., 1999) Vol. 4, No. 1, pp. 64-67.
ISSN: 1359-4184.
DT Article
LA English

L4 ANSWER 30 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full Text	Citing References
AN 1999:384873 BIOSIS	
DN PREV199900384873	
TI Genetics of Angelman syndrome.	
AU Jiang, Yong-hui; Lev-Lehman, Efrat; Bressler, Jan; Tsai, Ting-Fen; Beaudet, Arthur L. (1)	
CS (1) Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Room T619, Houston, TX, 77030 USA	
SO American Journal of Human Genetics, (July, 1999) Vol. 65, No. 1, pp. 1-6. ISSN: 0002-9297.	
DT General Review	
LA English	

=> d 31-40

L4 ANSWER 31 OF 40 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

Full Text	Citing References
AN 1999-00960 BIOTECHDS	
TI E3 isolated by differential display (EED) gene; recombinant ubiquitin-protein-ligase preparation by vector-mediated tumor suppressor gene transfer and expression in host cell, and DNA probe, used for mamma cancer diagnosis	
AU Callaghan M J; Sutherland R L; Watts C K W	
PA Garvan-Inst.Med.Res.	
LO Darlinghurst, New South Wales, Australia.	
PI WO 9848010 29 Oct 1998	
AI WO 1998-AU280 20 Apr 1998	
PRAI AU 1997-6334 21 Apr 1997	
DT Patent	
LA English	
OS WPI: 1998-609985 [51]	

L4 ANSWER 32 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
AN 1999:95926 HCAPLUS	
DN 130:248716	
TI Identification of a human HECT family protein with homology to the Drosophila tumor suppressor gene hyperplastic disks	
AU Callaghan, Michelle J.; Russell, Amanda J.; Woollatt, Erica; Sutherland, Grant R.; Sutherland, Robert L.; Watts, Colin K. W.	
CS Cancer Research Program, Garvan Institute of Medical Research, St Vincent's Hospital, Sydney, NSW 2010, Australia	
SO Oncogene (1998), 17(26), 3479-3491 CODEN: ONCNES; ISSN: 0950-9232	
PB Stockton Press	
DT Journal	
LA English	

RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 33 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
AN 1998:574187 HCAPLUS	

DN 129:342318
 TI Mutation analysis of UBE3A in Angelman syndrome patients
 AU Malzac, Perrine; Webber, Hayley; Moncla, Anne; Graham, John M., Jr.;
 Kukulich, Mary; Williams, Charles; Pagon, Roberta A.; Ramsdell, Linda A.;
 Kishino, Tatsuya; Wagstaff, Joseph
 CS Department de Genetique Medicale, Hopital d'Enfants de la Timone,
 Marseille, Fr.
 SO American Journal of Human Genetics (1998), 62(6), 1353-1360
 CODEN: AJHGAG; ISSN: 0002-9297
 PB University of Chicago Press
 DT Journal
 LA English

L4 ANSWER 34 OF 40 MEDLINE DUPLICATE 6

Full Text	Citing References
AN 1999023652	MEDLINE
DN 99023652	PubMed ID: 9808466
TI	Mutation of the Angelman ubiquitin ligase in mice causes increased cytoplasmic p53 and deficits of contextual learning and long-term potentiation.
CM	Comment in: Neuron. 1998 Oct;21(4):647-9
AU	Jiang Y H; Armstrong D; Albrecht U; Atkins C M; Noebels J L; Eichele G; Sweatt J D; Beaudet A L
CS	Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, Texas 77030, USA.
NC	MH-57014 (NIMH)
SO	NEURON, (1998 Oct) 21 (4) 799-811. Journal code: 8809320. ISSN: 0896-6273.
CY	United States
DT	Journal; Article; (JOURNAL ARTICLE)
LA	English
FS	Priority Journals
EM	199812
ED	Entered STN: 19990115 Last Updated on STN: 19990115 Entered Medline: 19981204

L4 ANSWER 35 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

Full Text	Citing References
AN 1998:196604	BIOSIS
DN PREV199800196604	
TI	Genetic analysis of human ubiquitin-protein ligases in cancer cell lines, and their interactions with ubiquitin-conjugating enzymes.
AU	Anan, T.; Nagata, Y.; Honda, Y.; Kimura, Y.; Araki, N.; Matsuda, I.; Saya, H.; Nakao, M.
CS	Kumamoto Univ. Sch. Med., Kumamoto 860 Japan
SO	Proceedings of the American Association for Cancer Research Annual Meeting, (March, 1998) Vol. 39, pp. 401. Meeting Info.: 89th Annual Meeting of the American Association for Cancer Research New Orleans, Louisiana, USA March 28-April 1, 1998 American Association for Cancer Research . ISSN: 0197-016X.
DT	Conference
LA	English

L4 ANSWER 36 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
AN 1998:90148	HCAPLUS
DN 128:226868	
TI	Genomic organization of the UBE3A/E6-AP gene and related pseudogenes
AU	Kishino, Tatsuya; Wagstaff, Joseph
CS	Genetics Division, Children's Hospital and Harvard Medical School, Boston, MA, 02115, USA

SO Genomics (1998), 47(1), 101-107
 CODEN: GNMCEP; ISSN: 0888-7543
 PB Academic Press
 DT Journal
 LA English

L4 ANSWER 37 OF 40 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

Full
Text

AN 1997-06451 BIOTECHDS
 TI New ubiquitin-ligases, nucleic acids and transgenic animals;
 human recombinant ubiquitin-ligase production by vector
 expression for use as a recombinant vaccine and DNA probe and
 transgenic animal for use in cell proliferation disease diagnosis,
 etc.
 AU Beach D; Caligiuri M; Nefsky B
 PA Cold-Spring-Harbor-Lab.
 LO Cold Spring Harbor, NY, USA.
 PI WO 9712962 10 Apr 1997
 AI WO 1996-US15930 4 Oct 1996
 PRAI US 1995-539205 4 Oct 1995
 DT Patent
 LA English
 OS WPI: 1997-226206 [20]

L4 ANSWER 38 OF 40 MEDLINE DUPLICATE 8

Full
Text

Citing
References

AN 97288525 MEDLINE
 DN 97288525 PubMed ID: 9143503
 TI The human E6-AP gene (UBE3A) encodes three potential protein isoforms
 generated by differential splicing.
 AU Yamamoto Y; Huibregtse J M; Howley P M
 CS Department of Pathology, Harvard Medical School, Boston, Massachusetts
 02115, USA.
 NC RO1-CA64888 (NCI)
 SO GENOMICS, (1997 Apr 15) 41 (2) 263-6.
 Journal code: 8800135. ISSN: 0888-7543.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 OS GENBANK-X98021; GENBANK-X98022; GENBANK-X98023; GENBANK-X98024;
 GENBANK-X98025; GENBANK-X98026; GENBANK-X98027; GENBANK-X98028;
 GENBANK-X98029; GENBANK-X98030; GENBANK-X98031; GENBANK-X98032;
 GENBANK-X98033; GENBANK-X98034; GENBANK-X98035; GENBANK-X98036;
 GENBANK-X98037
 EM 199707
 ED Entered STN: 19970805
 Last Updated on STN: 19970805
 Entered Medline: 19970718

L4 ANSWER 39 OF 40 HCAPLUS COPYRIGHT 2002 ACS

Full
Text

Citing
References

AN 1997:35172 HCAPLUS
 DN 126:73330
 TI De novo truncating mutations in E6-AP ubiquitin-protein ligase gene
 (UBE3A) in Angelman syndrome
 AU Matsuura, Toshinobu; Sutcliffe, James S.; Fang, Ping; Galjaard,
 Robert-Jan; Jiang, Yong-hui; Benton, Claudia S.; Rommens, Johanna M.;
 Beaudet, Arthur L.
 CS Dep. Molecular and Human Genetics, Baylor Coll. Med., Houston, TX, 77030,
 USA
 SO Nature Genetics (1997), 15(1), 74-77
 CODEN: NGENEC; ISSN: 1061-4036

PB Nature Publishing Co.
DT Journal
LA English

L4 ANSWER 40 OF 40 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

Full
Text

AN 1995-11446 BIOTECHDS
TI Identifying inhibitors of ubiquitin-mediated proteolysis;
drug screening system containing a human papilloma virus E6 protein or
ubiquitin-conjugating-enzyme gene and reporter gene in a vector;
antisense and gene therapy strategies
AU Draetta G; Rolfe M; Eckstein J W; Cottarel G; Gyuris J
PA Mitotix
PI WO 9518974 13 Jul 1995
AI WO 1995-US164 4 Jan 1995
PRAI US 1994-305520 13 Sep 1994; US 1994-176937 4 Jan 1994
DT Patent
LA English
OS WPI: 1995-255137 [33]

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(FILE 'HOME' ENTERED AT 14:36:01 ON 22 NOV 2002)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 14:36:14 ON 22 NOV 2002

L1 7880 S UBIQUITIN (3A) LIGASE
L2 605 S L1 (5A) (DNA OR RECOMBINA? OR GENE? OR NUCLEOTIDE)
L3 65 S L2 (5A) HUMAN
L4 40 DUP REM L3 (25 DUPLICATES REMOVED)

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

70.25

70.46

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:44:55 ON 22 NOV 2002